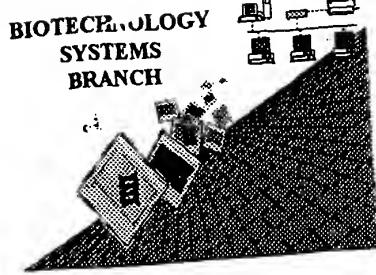


**RAW SEQUENCE LISTING**  
**ERROR REPORT**



#19/52  
8-2-01

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/659,983B  
Source: O/PE  
Date Processed by STIC: 6/5/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE  
APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A  
NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual

Property Organization (WIPO) Standard ST.25.  
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001  
TIME: 14:22:06 Does Not Comply  
Corrected Diskette Needed

Input Set : A:\PTO.txt  
Output Set: C:\CRF3\06052001\I659983B.raw

3 <110> APPLICANT: Meloen, Robert Hans  
4 Oonk, Hendrica Berendina  
6 <120> TITLE OF INVENTION: An Improved Peptide, Immunogenic Composition and Vaccine or  
Medical  
7 Preparation, a Method to Immunise Animals Against the Hormone LHRH, and Analogs  
8 of the LHRH Tandem Repeat Peptide and their Use as Vaccine  
10 <130> FILE REFERENCE: 2183-4518US  
12 <140> CURRENT APPLICATION NUMBER: 09/659,983B  
OK-> 13 <141> CURRENT FILING DATE: 2001-05-12  
15 <150> PRIOR APPLICATION NUMBER: US 09/274,048  
16 <151> PRIOR FILING DATE: 1999-03-22  
18 <150> PRIOR APPLICATION NUMBER: US 08/981,557  
19 <151> PRIOR FILING DATE: 1995-06-07  
21 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00223  
22 <151> PRIOR FILING DATE: 1996-06-06  
24 <150> PRIOR APPLICATION NUMBER: US 08/447,298  
25 <151> PRIOR FILING DATE: 1995-06-07  
27 <150> PRIOR APPLICATION NUMBER: US 08/476,013  
28 <151> PRIOR FILING DATE: 1995-06-07  
30 <160> NUMBER OF SEQ ID NOS: 13  
32 <170> SOFTWARE: PatentIn version 3.0  
34 <210> SEQ ID NO: 1  
35 <211> LENGTH: 10  
36 <212> TYPE: PRT  
37 <213> ORGANISM: Sus scrofa  
39 <220> FEATURE:  
40 <221> NAME/KEY: PEPTIDE  
41 <222> LOCATION: (1)..(1)  
42 <223> OTHER INFORMATION: X=pyroglutamic acid  
45 <220> FEATURE:  
46 <221> NAME/KEY: PEPTIDE  
47 <222> LOCATION: (10)..(10)  
48 <223> OTHER INFORMATION: X=Gly-NH<sub>2</sub>  
51 <400> SEQUENCE: 1  
N-> 53 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa  
54 1 5 10  
56 <210> SEQ ID NO: 2  
57 <211> LENGTH: 10  
58 <212> TYPE: PRT  
59 <213> ORGANISM: Homo sapiens  
61 <220> FEATURE:  
62 <221> NAME/KEY: PEPTIDE  
63 <222> LOCATION: (1)..(1)  
64 <223> OTHER INFORMATION: X=pyroglutamic acid  
67 <220> FEATURE:  
68 <221> NAME/KEY: PEPTIDE  
69 <222> LOCATION: (10)..(10)  
70 <223> OTHER INFORMATION: X=Gly-NH<sub>2</sub>

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001  
TIME: 14:22:06

Input Set : A:\PTO.txt  
Output Set: C:\CRF3\06052001\I659983B.raw

W--> 73 <400> SEQUENCE: 2  
75 Xaa His Trp Ser His Gly Trp Tyr Pro Xaa  
76 1 5 10  
78 <210> SEQ ID NO: 3  
79 <211> LENGTH: 20  
80 <212> TYPE: PRT  
C--> 81 <213> ORGANISM: artificial  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms

85 GnRH/ LHRH  
87 <220> FEATURE:  
88 <221> NAME/KEY: PEPTIDE  
89 <222> LOCATION: (1)..(1)  
90 <223> OTHER INFORMATION: X=pyroglutamic acid or Gln with attached tail of one or more addi

91 tional amino acid  
94 <220> FEATURE:  
95 <221> NAME/KEY: PEPTIDE  
96 <222> LOCATION: (3)..(3)  
97 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan  
100 <220> FEATURE:  
101 <221> NAME/KEY: PEPTIDE Xaa can only represent a single amino acid, nothing else  
102 <222> LOCATION: (11)..(11)  
103 <223> OTHER INFORMATION: X=direct bond or a spacer group between Gly at position 10 and G1

and G1  
104 n at position 1  
107 <220> FEATURE:  
108 <221> NAME/KEY: PEPTIDE  
109 <222> LOCATION: (13)..(13)  
110 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan  
113 <220> FEATURE:  
114 <221> NAME/KEY: PEPTIDE  
115 <222> LOCATION: (20)..(20)  
116 <223> OTHER INFORMATION: X=Gly-NH<sub>2</sub> or Gly with attached tail of one or more amino acids

119 <220> FEATURE:  
120 <221> NAME/KEY: VARIANT  
121 <222> LOCATION: (10)..(20)  
122 <223> OTHER INFORMATION: variable repeat sequence <>10-20  
125 <400> SEQUENCE: 3  
W--> 127 Xaa His Xaa Ser Tyr Gly Leu Arg Pro Gly Xaa His Xaa Ser Tyr Gly  
128 1 5 10 15  
W--> 130 Leu Arg Pro Xaa  
131 20  
133 <210> SEQ ID NO: 4  
134 <211> LENGTH: 21  
135 <212> TYPE: PRT  
Q--> 136 <213> ORGANISM: artificial  
138 <220> FEATURE:  
139 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms  
140 GnRH/ LHRH

142 <220> FEATURE:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001  
TIME: 14:22:06

Input Set : A:\PTO.txt  
Output Set: C:\CRF3\06052001\I659983B.raw

143 <221> NAME/KEY: PEPTIDE  
 144 <222> LOCATION: (1)..(1)  
 145 <223> OTHER INFORMATION: X=pyroglutamic acid  
 148 <220> FEATURE:  
 149 <221> NAME/KEY: PEPTIDE  
 150 <222> LOCATION: (6)..(6)  
 151 <223> OTHER INFORMATION: X=D-Lys  
 154 <220> FEATURE:  
 155 <221> NAME/KEY: PEPTIDE  
 156 <222> LOCATION: (11)..(11)  
 157 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer  
 160 <220> FEATURE:  
 161 <221> NAME/KEY: PEPTIDE  
 162 <222> LOCATION: (16)..(16)  
 163 <223> OTHER INFORMATION: X=D-Lys  
 166 <220> FEATURE:  
 167 <221> NAME/KEY: PEPTIDE  
 168 <222> LOCATION: (21)..(21)  
 169 <223> OTHER INFORMATION: X=Cys-NH<sub>2</sub>  
 172 <400> SEQUENCE: 4  
 W-> 174 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Gly Xaa His Thr Ser Tyr Xaa  
 175 1 5 10 15  
 W-> 177 Leu Arg Pro Gly Xaa  
 178 20  
 180 <210> SEQ ID NO: 5  
 181 <211> LENGTH: 21  
 182 <212> TYPE: PRT  
 W-> 183 <213> ORGANISM: artificial  
 185 <220> FEATURE:  
 186 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against  
 forms  
 187 GnRH/ LHRH  
 189 <220> FEATURE:  
 190 <221> NAME/KEY: PEPTIDE  
 191 <222> LOCATION: (1)..(1)  
 192 <223> OTHER INFORMATION: X=pyroglutamic acid  
 195 <220> FEATURE:  
 196 <221> NAME/KEY: PEPTIDE  
 197 <222> LOCATION: (4)..(4)  
 198 <223> OTHER INFORMATION: X=amino acid substitution  
 201 <220> FEATURE:  
 202 <221> NAME/KEY: PEPTIDE  
 203 <222> LOCATION: (6)..(6)  
 204 <223> OTHER INFORMATION: X=D-Lys  
 207 <220> FEATURE:  
 208 <221> NAME/KEY: PEPTIDE  
 209 <222> LOCATION: (11)..(11)  
 210 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer  
 213 <220> FEATURE:  
 214 <221> NAME/KEY: PEPTIDE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

215 <222> LOCATION: (14)..(14)  
 216 <223> OTHER INFORMATION: X=amino acid substitution  
 219 <220> FEATURE:  
 220 <221> NAME/KEY: PEPTIDE  
 221 <222> LOCATION: (16)..(16)  
 222 <223> OTHER INFORMATION: X=D-Lys  
 225 <220> FEATURE:  
 226 <221> NAME/KEY: PEPTIDE  
 227 <222> LOCATION: (21)..(21)  
 228 <223> OTHER INFORMATION: X=Cys-NH<sub>2</sub>  
 231 <400> SEQUENCE: 5  
 NOK> 233 Xaa His Thr Xaa Tyr Xaa Leu Ala Pro Gly Xaa His Thr Xaa Tyr Xaa  
 234 1 5 10 15  
 W-> 236 Leu Arg Pro Gly Xaa  
 237 20  
 239 <210> SEQ ID NO: 6  
 240 <211> LENGTH: 21  
 241 <212> TYPE: PRT  
 OK> 242 <213> ORGANISM: artificial  
 244 <220> FEATURE:  
 245 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against  
 forms  
 246 GnRH/ LHRH  
 248 <220> FEATURE:  
 249 <221> NAME/KEY: PEPTIDE  
 250 <222> LOCATION: (1)..(1)  
 251 <223> OTHER INFORMATION: X=pyroglutamic acid  
 254 <220> FEATURE:  
 255 <221> NAME/KEY: PEPTIDE  
 256 <222> LOCATION: (6)..(6)  
 257 <223> OTHER INFORMATION: X=D-Lys  
 260 <220> FEATURE:  
 261 <221> NAME/KEY: PEPTIDE  
 262 <222> LOCATION: (8)..(8)  
 263 <223> OTHER INFORMATION: X=amino acid substitution  
 266 <220> FEATURE:  
 267 <221> NAME/KEY: PEPTIDE  
 268 <222> LOCATION: (11)..(11)  
 269 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer  
 272 <220> FEATURE:  
 273 <221> NAME/KEY: PEPTIDE  
 274 <222> LOCATION: (16)..(16)  
 275 <223> OTHER INFORMATION: X=D-Lys  
 278 <220> FEATURE:  
 279 <221> NAME/KEY: PEPTIDE  
 280 <222> LOCATION: (18)..(18)  
 281 <223> OTHER INFORMATION: X=amino acid substitution  
 284 <220> FEATURE:  
 285 <221> NAME/KEY: PEPTIDE  
 286 <222> LOCATION: (21)..(21)

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001  
TIME: 14:22:06

Input Set : A:\PTO.txt  
Output Set: C:\CRF3\06052001\I659983B.raw

287 <223> OTHER INFORMATION: X=Cys-NH<sub>2</sub>  
 290 <400> SEQUENCE: 6  
 292 Xaa His Thr Ser Tyr Xaa Leu Xaa Pro Gly Xaa His Thr Ser Tyr Xaa  
 293 1 5 10 15  
 W--> 295 Leu Xaa Pro Gly Xaa  
 296 20  
 298 <210> SEQ ID NO: 7  
 299 <211> LENGTH: 21  
 300 <212> TYPE: PRT  
 OK 301 <213> ORGANISM: artificial  
 303 <220> FEATURE:  
 304 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms  
 305 GnRH/ LHRH  
 307 <220> FEATURE:  
 308 <221> NAME/KEY: PEPTIDE  
 309 <222> LOCATION: (1)..(1)  
 310 <223> OTHER INFORMATION: X=pyroglutamic acid  
 313 <220> FEATURE:  
 314 <221> NAME/KEY: PEPTIDE  
 315 <222> LOCATION: (6)..(6)  
 316 <223> OTHER INFORMATION: X=D-Lys  
 319 <220> FEATURE:  
 320 <221> NAME/KEY: PEPTIDE  
 321 <222> LOCATION: (10)..(10)  
 322 <223> OTHER INFORMATION: X=amino acid substitution  
 325 <220> FEATURE:  
 326 <221> NAME/KEY: PEPTIDE  
 327 <222> LOCATION: (11)..(11)  
 328 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer  
 331 <220> FEATURE:  
 332 <221> NAME/KEY: PEPTIDE  
 333 <222> LOCATION: (16)..(16)  
 334 <223> OTHER INFORMATION: X=amino acid substitution  
 337 <220> FEATURE:  
 338 <221> NAME/KEY: PEPTIDE  
 339 <222> LOCATION: (20)..(20)  
 340 <223> OTHER INFORMATION: X=amino acid substitution  
 343 <220> FEATURE:  
 344 <221> NAME/KEY: PEPTIDE  
 345 <222> LOCATION: (21)..(21)  
 346 <223> OTHER INFORMATION: X=Cys-NH<sub>2</sub>  
 349 <400> SEQUENCE: 7  
 W--> 351 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Xaa Xaa His Thr Ser Tyr Xaa  
 352 1 5 10 15  
 W--> 354 Leu Arg Pro Xaa Xaa  
 355 20  
 357 <210> SEQ ID NO: 8  
 358 <211> LENGTH: 42  
 359 <212> TYPE: PRT  
 FUS

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:07

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:242 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:360 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:434 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:481 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:528 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:587 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:646 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13